# Skytron Stellar Lighting Control Panel with Hermes Interface

**Calibration Mode rev 1**

## 1 Description

The calibration mode of the Skytron Stellar Lighting Control Panel can be used to adjust the lighting voltage to compensate for line voltage variation, voltage drop in the wiring etc. Calibration mode is entered by powering up the controller with a jumper wire in place. After the voltage has been adjusted, the new voltage is stored in non-volatile memory.

## 2 Calibration Mode

### 2.1 *Jumpers*

The Lighting Control Panel will enter Calibration Mode if a jumper is present on connector P11 of the printed circuit assembly when power is applied. Figure 1. shows the calibration jumper positions on a Skytron Stellar controller printed circuit assembly. Table 2 lists the jumper positions and their corresponding operating mode. Placing a jumper in positions 1, 2, or 3 will cause the panel to enter Calibration Mode the next time it powers up. The jumper should be stored in position N for normal operation. Figure 2 shows a two channel Stellar panel with a calibration jumper. The jumper in the position shown would enable calibration of light channel #1.

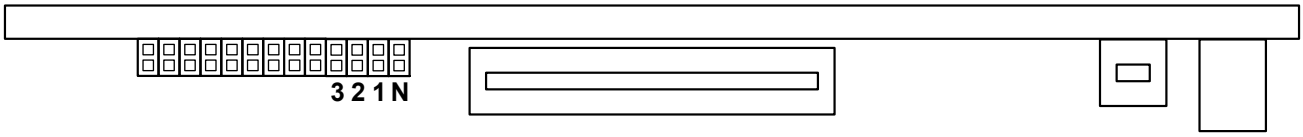


**Figure 1: Skytron Stellar Calibration Mode Jumpers**

| Operating Mode | Jumper | Position |
|---|---|---|
| Normal | P11-1 to P11-2 | N |
| Calibrate Channel 1 | P11-3 to P11-4 | 1 |
| Calibrate Channel 2 | P11-5 to P11-6 | 2 |
| Calibrate Channel 3 | P11-7 to P11-8 | 3 |

**Table 1: Calibration Mode Jumper Positions**

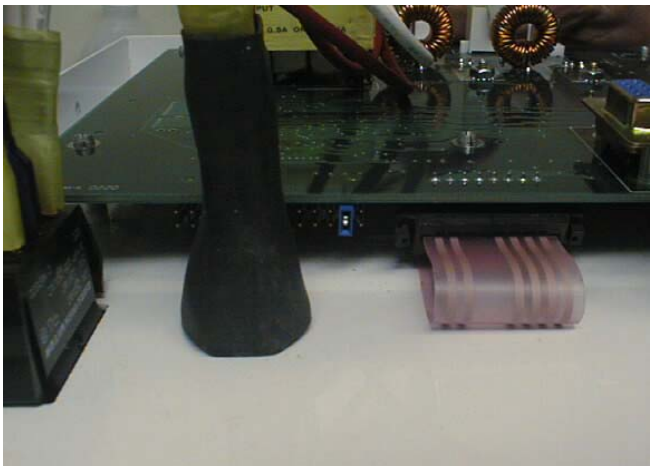

**Figure 2: Stellar Panel with Calibration Jumper**

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**Calibration Mode rev 1**

## 2.2 *Calibration Mode Procedure*

### 2.2.1 Place jumper to select channel to be calibrated.

### 2.2.2 Apply power to lighting control panel.

If the control panel detects a calibration jumper at power up it will enter Calibration Mode. It will bring all of the light channels up to full power, and then will begin flashing the "OFF" state LED (Red) of the selected channel.

### 2.2.3 Adjust lighting output voltage by pressing the "UP" or "DOWN" buttons associated with that light channel.

### 2.2.4 When desired output voltage is achieved, wait until the "OFF" LED resumes flashing.

This will happen 10 seconds after the last button press. When the LED begins flashing again the voltage adjustment data has been stored in non-volatile memory. The output voltage may again be adjusted by pressing the "UP" or "DOWN" buttons.

### 2.2.5 When adjustment is complete, power down the panel, and remove the jumper.

The next time the panel is powered up for normal operation the output voltage should be the same as the adjusted voltage. Always wait until the LED is flashing before powering down the panel to avoid losing the adjustment data.

### 2.2.6 Calibrate the other channel(s) by setting the jumper to the other position and repeating steps 1 through 5.

### 2.2.7 Calibrate the other channel(s) by setting the jumper to the other position and repeating steps 1 through 5.